## 13th Serbian Mathematical Congress Vrnjačka banja, May 22–25, 2014

# **Conference Schedule**

### Field 6: Theoretical Computer Sciences, Computer Sciences

#### May 22, 2014

15:00-17:00	Plenary lectures
17:00-17:30	Cofee break
17:30-19:20	Field 6 – Chairman: Marko Petković
17:30-17:50	Gordana Rakić, Miloš Savić, Zoran Budimac, Mirjana Ivanović Toward The Formalization of Software Measurement by Involving Network Theory
17:50-18:10	Miloš Savić, Mirjana Ivanović, Miloš Radovanović The construction of co-authorship networks supported by author name analysis
18:10-18:30	Branimir Todorovic, Dejan Mancev Adaptive Clustering of Gaussian Mixture components in Nonlinear Bayesian Estimation of Recurrent Neural Networks
18:30-18:50	Svetozar Rancic A new efficient algorithm for finding \$k\$ shortest simple paths in undirected graphs
18:50–19:10	Marko Petković Construction and verification of the spherical coverage by hypercaps
19:10-19:30	Dušan Tošić, Ana Zeković Representation of computations in Knot theory by using XML technologies

## May 23, 2014

09:00-11:00	Plenary lectures
11:00-11:30	Cofee break
11:30-13:30	Field 6 – Chairman: Predrag Krtolica
11:30-12:00	Heiko Vogler Syntax-directed models for statistical machine translation
12:00-12:30	David Pokrajac, Andrew Maidment, Marko Petković, Predrag Bakić Mathematical Issues in Software Breast Phantom Simulation
12:30-12:50	David Pokrajac, Predrag Bakić, Andrew Maidment, Shane Jensen, Xiquan Shi, Feiyu Chen Partial volume simulation in software breast phantoms
12:50-13:10	Marko Milosevic Web GRAPH - an online graph filtering system
13:10-13:30	Marjan Kuchaki Rafsanjani, E Eskandari, A Borumand Saeid Genetic Algorithm and Local Search Hybridization to Solve Traveling Salesman Problem
13:30-15:00	Lunch break
15:00-17:00	Field 6 – Chairman: Heiko Vogler
15:00-15:20	Ivana Micić, Jelena Ignjatović, Miroslav Ćirić Algorithms for computing the greatest simulations and bisimulations for fuzzy automata
15:20-15:40	Zorana Jančić, Ivana Micić, Jelena Ignjatović, Miroslav Ćirić Algorithms for determinization of fuzzy and weighted automata
15:40-16:00	Ivan Stanković, Jelena Ignjatović, Miroslav Ćirić Application of relation equations in data analysis
16:00-16:20	Marjan Milanović, Miroslav Ćirić, Jelena Ignjatović, Aleksandar Stamenković State reduction for fuzzy automata with outputs
16:20-16:40	Aleksandar Stamenković
	Rank of fuzzy matrices. Applications in state reduction of fuzzy automata
16:40-17:00	Milan Bašić Interconnection networks with recursive structure